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DATE MAILED: 09/08/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

35811 7590 09/08/2009
IP GROUP OF DLA PIPER LLP (US)
ONE LIBERTY PLACE
1650 MARKET ST. SUITE 4900

PHILADELPHIA, PA 19103

EXAMINER
ADDY, THIUAN KNOWLIN
ART UNIT PAPER NUMBER
2614

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046.124	12/28/2001	Paul Bourgine	1394-01	4810

TITLE OF INVENTION: ADAPTATION OF THE CALL SEQUENCE BY ANALYSIS OF THE HISTORY OF THE PRECEDING COMMUNICATION SEQUENCES

DIQUITOID

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This is appropriate. All further c indicated unless corrected maintenance fee notificati	form should be used for correspondence including d below or directed oth ions.	or trans ig the P ierwise	mitting the ISSU atent, advance or in Block 1, by (a					nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDED	NCE ADDRESS (Note: Use Blo	ock 1 for a	ny change of address)	Fe pa	e(s) Transmittal. Th xers. Each additiona	is certil I paper	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
IP GROUP OF ONE LIBERTY I 1650 MARKET S	ST, SUITE 4900		•	1.6	Cer	tificate	of Mailing or Trans	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
PHILADELPHIA	A, PA 19103							(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/046,124	12/28/200I			Paul Bourgine			1394-01	4810
TITLE OF INVENTION: SEQUENCES								
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0	\$1810		12/08/2009
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	7			
ADDY, THJUA	ADDY, THJUAN KNOWLIN 261		2614	379-265020	_			
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ondence address (or Cha 7122) attached. cation (or "Fee Address" 2 or more recent) attach ND RESIDENCE DATA sess an assignce is identi in 37 CFR 3.11. Comp	nge of C " Indica ed. Use	Correspondence tion form of a Customer E PRINTED ON T		o 3 registered pater ively, the firm (having as a agent) and the nam orneys or agents. If e printed. (pe) patent. If an assign assignment.	memb es of u no nan	er a 2 p to e is 3 lentified below, the do	ocument has been filed for
		categor		inted on the patent):				up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	SMALL ENTITY statu	is. See 3	7 CFR 1.27.	☐ b. Applicant is no lo	nger claiming SMA	LLEN	FITY status. Sec 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeecords of the United Sta	uired) w tes Pate	ill not be accepted nt and Trademark	from anyone other than Office.	the applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N	lo		
This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231	tion is required by 37 C iality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.31 U.S.C. USPTO rden, sh O NOT S	1. The information 122 and 37 CFR 22 and 37 CFR 23 and 37 CFR 24 and 37 CFR 25	on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offic COMPLETED FORMS	retain a benefit by t stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minute mmen Trader S. SEN	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Deps D TO: Commissioner i	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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1650 MARKET ST, SUITE 4900 PHILADELPHIA, PA 19103					
	Paul Bourgine	Paul Bourgine 1394-01 EXAM			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/046,124 BOURGINE, PAUL Notice of Allowability Examiner Art Unit THJUAN K ADDY 2614 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to Examiner's amendment of 08/28/2009 and Applicant Arguments/Remarks of 05/19/2009. 2. The allowed claim(s) is/are 1 and 6-16 (now renumbered as claims 1-12, respectively). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) Some* c) None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment

/Thjuan K. Addy/ Primary Examiner. Art Unit 2614

Paper No./Mail Date

of Biological Material

4. ☐ Examiner's Comment Regarding Requirement for Deposit

□ Other .

8. T Examiner's Statement of Reasons for Allowance

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes
and/or additions be unacceptable to applicant, an amendment may be filed as provided.

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview

with T. Daniel Christenbury (Reg. No. 31, 750) on 08/26/2009.

The application has been amended as follows:

1. (Currently Amended) A process for management of data transfer to a specific

destination station having a plurality of real addresses, the process being applied to a

multiplicity of telecommunications supports and comprising:

defining a virtual address of a destination station, said destination station

having a plurality of real addresses;

sequentially searching through the real addresses according to one of a

plurality of time-related sequences until obtaining a positive response from a real

address establishing a communications channel, said time-related sequence

being a predetermined ordered sequence;

transferring data by the communications channel;

storing in a memory, time-related communication parameters concerning each failure in the establishment of a communications channel, and each success in the establishment of a communications channel:

processing by an iterative <u>statistical</u> learning process in a neural network said time-related communications parameters stored in the memory by correlating at least one of the time-related communications parameters with the real address; and

determining a new order of the time-related sequence for sequentially searching through the real addresses based on the correlation.

(Cancelled)

(Currently Amended) A communication device comprising:

telephonic communications transport means and data transfer means:

means for storing in a memory calls issued and received by a party;

means for storing in the memory addresses enabling connection of the party;

means for sequential calling of a destination station from an ordered timerelated list of addresses;

means for the storage in the memory of a history of past communication sequences comprising time-related communications parameters concerning each

failure in the establishment of a communications channel, and each success in the establishment of a communications channel:

means for modeling optimal sequences for a multiplicity of telecommunications supports, said means for modeling processing by an iterative statistical learning process in a neural network of time-related communications parameters stored in the memory to model the optimal sequences: and

means for modifying the order of the time-related list in which the addresses are sequentially called based on the optimal sequences.

10. (Currently Amended) A process for establishing communications with a specific destination station having a plurality of real addresses, the process comprising:

defining a virtual address of a destination station depending on the time of the day or day of the week, the destination station having a plurality of real addresses:

when a communication is directed to the virtual address, sequentially searching through the real addresses according to one of a plurality of timerelated sequences until a positive response from a real address establishes a communications channel:

recording time-related data comprising the real address from which the positive response was received and one or more time-related parameters associated with the communication concerning each failure in the establishment Application/Control Number: 10/046,124 Page 5

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of a communications channel, and each success in the establishment of a communications channel, at least one of the time-related parameters being selected from the group consisting of time of day and day of week;

processing by an iterative <u>statistical</u> learning process in a neural network the time-related parameters to determine an optimal order to sequentially search the real addresses for a particular time of day or day of week; and

changing the order in which the real addresses are sequentially searched for the time of day or day of week.

Conclusion

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to THJUAN K. ADDY whose telephone number is (571)272-7486. The examiner can normally be reached on Mon-Fri 8:30-5:00pm.
- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thjuan K. Addy/ Primary Examiner, Art Unit 2614